

Notice of Allowability

Application No.

09/961,193

Examiner

Edna Wong

Applicant(s)

BASOL, BULENT M.

Art Unit

1753

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment dated February 22, 2005.
2. ☒ The allowed claim(s) is/are 1-33.
3. ☒ The drawings filed on 04 August 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

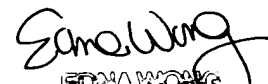
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date February 16, 2005.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


EDNA WONG
PRIMARY EXAMINER

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

The application has been amended as follows:

IN THE SPECIFICATION

page 1, in the Related Applications Statement, line 5, the words -- now US Patent No. 6,858,121, -- should be inserted after the word "*Influence*".

page 1, in the Related Applications Statement, line 9, the words -- now US Patent No. 6,534,116, -- should be inserted after the word "*Influence*".

page 7, line 21, the words -- , now US Patent No. 6,534,116, -- should be inserted after the word "*Influence*".

page 8, line 6, the words -- now US Patent No. 6,413,388, -- should be inserted after the number "2000".

page 8, line 8, the words -- , now US Patent No. 6,413,403 -- should be inserted after the number "2000".

page 8, line 13, the words -- now pending -- should be inserted after the number "2000".

page 8, line 14, the words -- filed January 17, 2001, now US Patent No. 6,610,190, -- should be inserted after the word "Layer,".

IN THE CLAIM

Claim 2, line 1, the word "including" has been deleted and replaced with the word -- comprising --.

Claim 14, line 1, the word "including" has been deleted and replaced with the word -- comprising --.

Claim 22, line 1, the word "including" has been deleted and replaced with the word -- comprising --.

Claim 25, line 1, the word "steps" has been deleted and replaced with the word -- step --.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Claims **1-2 and 5-22** are allowable over the prior art of record because the prior art does not teach or suggest a method of plating a conductive top surface of a workpiece, the conductive top surface of the workpiece including a top portion and a cavity portion, the method comprising the steps of applying, using, moving and plating as presently claimed, esp., the steps of using a workpiece-surface-influencing device to make physical contact with the top portion and establishing relative movement with the workpiece to change at least the first portion of the additive adsorbed onto the top portion; and moving the workpiece-surface influencing device relatively away from the workpiece surface so that the physical contact between the workpiece-surface-influencing device and the workpiece no longer occurs.

Claims **3 and 4** are allowable over the prior art of record because the prior art does not teach or suggest a method of plating a conductive top surface of a workpiece, the conductive top surface of the workpiece including a top portion and a cavity portion, the method comprising the steps of applying, using, moving, plating and plating as presently claimed, esp., the steps of using a workpiece-surface-influencing device to make physical contact with the top portion and establishing relative movement with the workpiece to change at least the first portion of the additive adsorbed onto the top portion, wherein using the workpiece-surface-influencing device applies a mask that includes at least one opening therein through which a flow of electrolyte therethrough can be controlled; and moving the workpiece-surface influencing device relatively away from the workpiece surface so that the physical contact between the workpiece-surface-

influencing device and the workpiece no longer occurs.

Claims **23-33** are allowable over the prior art of record because the prior art does not teach or suggest a method of plating a conductive top surface of a workpiece, the conductive top surface of the workpiece including a top portion and a cavity portion, the method comprising the steps of applying, using, moving and plating as presently claimed, esp., the steps of using a workpiece-surface-influencing device to make physical contact with the top portion and establishing relative movement with the workpiece to change at least the first portion of the additive adsorbed onto the top portion, wherein the step of using the workpiece-surface-influencing device uses a sweeper that has a sweeping portion that physically contacts the workpiece with a surface area that is substantially less than the surface area of the workpiece surface; and moving the workpiece-surface influencing device relatively away from the workpiece surface so that the physical contact between the workpiece-surface-influencing device and the workpiece no longer occurs.

The prior art does not contain any language that teaches or suggests the above. *Walton et al.* do not teach using a workpiece-surface-influencing device to make physical contact with the top portion and establishing relative movement with the workpiece to change at least the first portion of the additive adsorbed onto the top portion; and moving the workpiece-surface influencing device relatively away from the workpiece surface so that the physical contact between the workpiece-surface-influencing device and the workpiece no longer occurs.

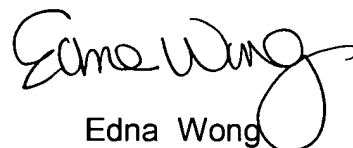
Therefore, a person skilled in the art would not have been motivated to adopt the above conditions, and a prima facie case of obviousness cannot be established.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edna Wong whose telephone number is (571) 272-1349. The examiner can normally be reached on Mon-Fri 7:30 am to 4:00 pm, Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Edna Wong
Primary Examiner
Art Unit 1753

EW
March 12, 2005